

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (Canceled)

9. (Previously presented) A vector comprising a polynucleotide of claim 23.

10. (Previously presented) A host cell transformed or transfected with the polynucleotide of claim 23, wherein said polynucleotide is expressed under conditions sufficient for expression.

11. (Previously presented) A process for producing a polypeptide comprising culturing the transformed/transfected host cell of claim 10 under conditions sufficient for the expression of the polynucleotide of claim 23.

12. (Currently amended) A membrane preparation of a cell ~~of claim 10~~ transformed or transfected with the polynucleotide of claim 23, wherein said membrane comprises a polypeptide produced by expression of the polynucleotide of claim 23.

Claims 13-22 (Canceled)

23. (Currently amended) An isolated or purified polynucleotide comprising a polynucleotide selected from the group consisting of:

(a) a polynucleotide encoding the polypeptide of SEQ ID NO: 2;

(b) a polynucleotide of SEQ ID NO: 1;

(c) a polynucleotide contained in the clone deposited as National Collections of Industrial and Marine Bacteria Limited (NCIMB) 41066; and

(d) a polynucleotide comprising a nucleotide sequence that has at least 95% identity to the polynucleotide of any one of (a) to (c) and encodes a naturally occurring, ~~functional~~ neuromedin U receptor that mediates, in HEK-293 cells transfected with and expressing said polynucleotide, a specific, neuromedin U-induced increase in intracellular calcium following contact with neuromedin U.

24. (Previously presented) An isolated or purified polynucleotide comprising a polynucleotide sequence which encodes the polypeptide of SEQ ID NO: 2.

25. (Previously presented) The isolated or purified polynucleotide of claim 24, wherein said polynucleotide comprises the polynucleotide of SEQ ID NO: 1.

Claims 26-31 (Canceled)

32. (Previously presented) An isolated or purified polynucleotide comprising the DNA contained in the NCIMB deposit 41066.

Claims 33-36 (Canceled)